AMENDMENTS TO THE CLAIMS

1. (Previously presented) A network adapter for one or more access points in a local area network environment, comprising:

means for connecting said one or more access points to a wired network;

means for connecting said one or more access points to a wireless network;

means for enforcing a managed network environment, including at least one of filtering

and rewriting data packets transmitted between the wired and wireless networks;

and

means for communicating with a network control server.

- 2. (Previously presented) A network adapter as recited in claim 1, wherein said means for connecting to a wired network further comprises a wireline network interface.
- 3. (Previously presented) A network adapter as recited in claim 1, wherein said means for connecting to a wireless network further comprises a wireless network interface.
- 4. (Previously presented) A network adapter as recited in claim 3 wherein said wireless network interface is coupled to a wireless access point.
- 5. (Previously presented) A network adapter as recited in claim 4 wherein said wireless access point further comprises an 802.11 type access point.
- 6. (Previously presented) A network adapter as recited in claim 4 wherein said wireless access point further comprises a Bluetooth-type access point.
- 7. (Previously presented) A network adapter as claimed in claim 3 wherein said wireless network interface is coupled to a Local Area Network (LAN) port.
- 8. (Previously presented) A network adapter as recited in claim 1 wherein said means for enforcing a managed network environment further comprises an augmented IP stack.
- 9. (Previously presented) A network adapter as recited in claim 8 wherein said augmented IP stack includes a Mobile IP Foreign Agent.

- 10. (Previously presented) A network adapter as recited in claim 8 wherein said augmented IP stack detects and handles packets corresponding to a plurality of network services.
- 11. (Previously presented) A network adapter as recited in claim 1 wherein said means for communicating further comprises network coordination software.
- 12. (Previously presented) A network adapter as recited in claim 1 wherein said network adapter includes a plurality of wireline network interfaces.
- 13. (Previously presented) A network adapter as recited in claim 1 wherein said network adapter includes a plurality of wireless network interfaces.
- 14. (Previously presented) A network adapter as recited in claim 1 wherein said network adapter is coupled to a switch and said switch is coupled to a plurality of short-range wireless access points.
- 15. (Previously presented) A network adapter as recited in claim 14 wherein said switch is programmable to automatically forward all inbound packets from wireless access point LAN segments to a segment containing said network adapter.
- 16. (Previously presented) A network adapter as recited in claim 14 wherein said switch is programmable to automatically forward all packets not originating from a LAN segment containing the network adapter and destined to an access point segment, to the LAN segment containing said network adapter.
- 17. (Previously presented) A network adapter as recited in claim 14 wherein the access points or wireless clients are programmed to forward all packets to said network adapter.
- 18. (Previously presented) A network adapter as recited in claim 1 wherein said network control server is co-located with said network adapter.
- 19. (Currently amended) A network adapter as recited in claim 1 wherein said network control server is co-located with a core server that provides services as users of mobile devices wirelessly coupled to the local area network environment roam physically move through the environment.

- 20. (Currently amended) A network adapter as recited in claim 1 wherein said network control server is co-located with a routing coordinator that enables client data connections to be preserved as <u>users of mobile</u> devices <u>wirelessly coupled to the local area</u> network environment roam physically move through the environment.
- 21. (Previously presented) A network adapter as recited in claim 1 wherein said network adapter further comprises at least one of a stand-alone personal computer (PC) and a special purpose computing machine.
- 22. (Previously presented) A network adapter as recited in claim 1 wherein said network adapter further comprises software stored within said one or more access points.
- 23. (Previously presented) A network adapter as recited in claim 1 wherein said network control server is distributed over said wired network.
- 24. (Previously presented) A network adapter as recited in claim 1 wherein said network adapter is connectable to one or more access points located on a plurality of LAN segments.
- 25. (Previously presented) A network adapter as recited in claim 1 wherein said network adapter is connectable to different wireless LANs.
- 26. (Previously presented) A network adapter as recited in claim 1 wherein said network adapter is co-located with at least one of a Handoff Management Point, a Home Address Masquerader and a Foreign Address Masquerader.
- 27. (Previously presented) A method for providing a network adapter for a plurality of access points in a local area network environment, comprising the steps of:

connecting said access points to a wired network;

connecting said access points to a wireless network;

enforcing a managed network environment, including at least one of filtering and

rewriting data packets transmitted between the wired and wireless networks; and communicating with a network control server.

28. (Original) A method as recited in claim 27 wherein the step of enforcing a managed network environment further comprises the steps of:

receiving packets from a wireline network; processing said packets through an augmented IP stack; determining whether to rewrite said packets; and forwarding said packets to said wireless network.

- 29. (Original) A method as recited in claim 28, further comprising, prior to the step of forwarding said packets to said wireless network, the step of determining whether to filter said packets.
- 30. (Original) A method as recited in claim 27 wherein the step of enforcing a managed network environment further comprises the steps of:

receiving packets from a wireless network; processing said packets through an augmented IP stack; and forwarding said packets to a wireline network.

31. (Original) A method as recited in claim 30, wherein said step of processing further comprises, prior to the step of forwarding, the steps of:

determining whether to filter said packets; and

determining whether to rewrite said packets.

- 32. (Original) A method as recited in claim 31, further comprising the steps of:
 detecting packets corresponding to a plurality of network services via said augmented IP
 stack; and
 handling said packets.
- 33. (Previously presented) A method as recited in claim 27, further comprising the step of determining an access point currently associated with a mobile client by inspecting a media access control (MAC) address associated with packets transmitted by the mobile client.
 - 34. (Previously presented) A network adapter, comprising: a wireline network interface for connecting one or more access points to a wired network;

- a wireless network interface for connecting the one or more access points to a wireless network:
- an augmented IP stack for enforcing a managed network environment, including at least one of filtering and rewriting data packets transmitted between the wireline and wireless network interfaces; and

network coordination software for communicating with a network control server.

- 35. (Previously presented) The network adapter of claim 34 wherein packet filtering is carried out in accordance with at least one of security and quality-of-service policies of the managed network environment.
- 36. (Previously presented) The network adapter of claim 34 wherein packet rewriting is carried out in accordance with packet rewriting policies of the managed network environment.
- 37. (Previously presented) The network adapter of claim 36 wherein the packet rewriting policies enable at least one of a roaming capability and network address translation (NAT).